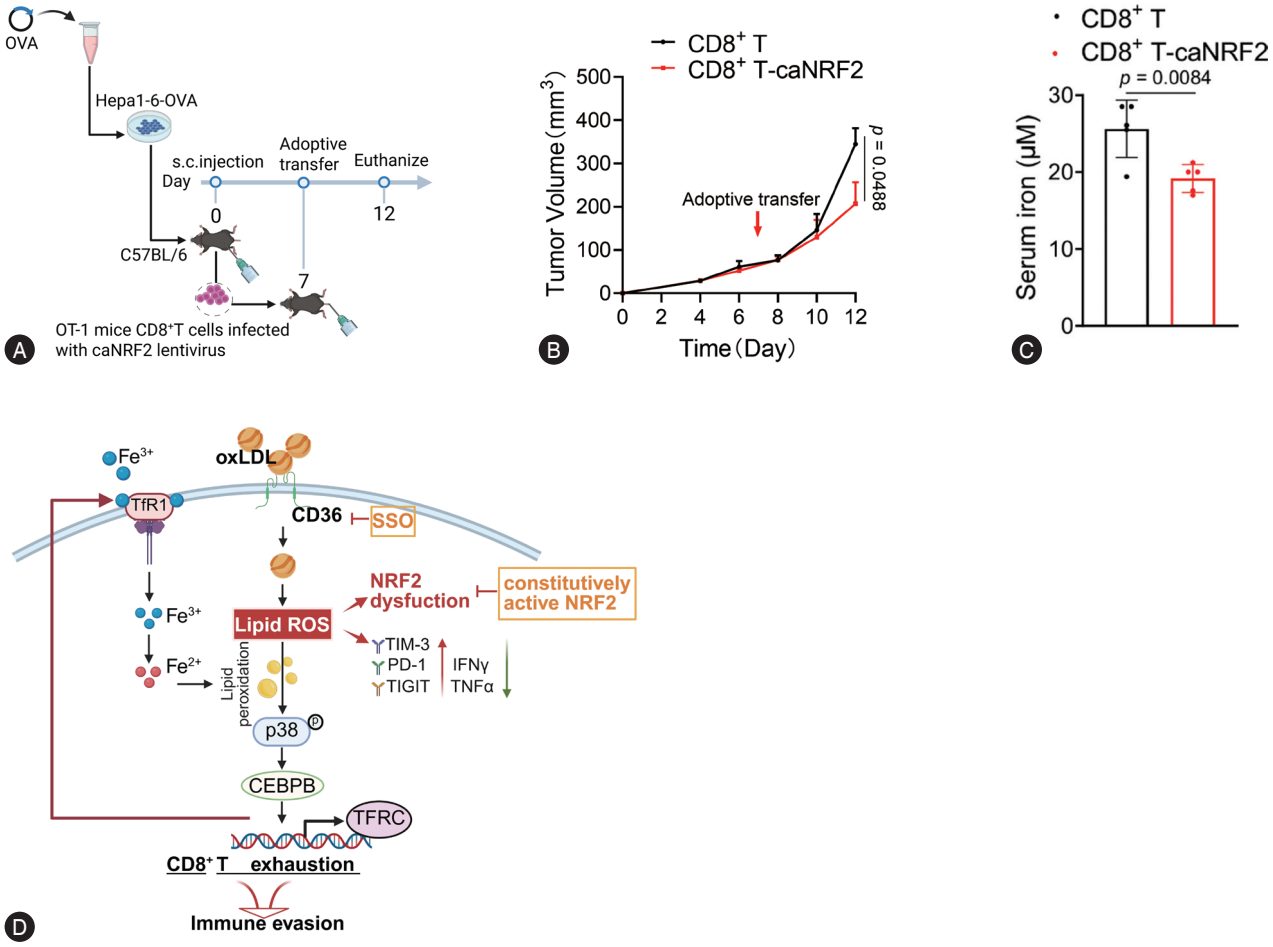

Supplementary Figure 17. Adoptive transfer of CD8⁺ T cells overexpressing activated NRF2 inhibits tumor growth. (A) Schematic diagram of the experimental design of adoptive T cell transfer. (B) C57BL/6 mice were implanted with Hepa1-6-OVA cells and *in vitro* activated OT-1 CD8⁺ T cells transduced with lentivirus overexpressing caNRF2 were adoptively transferred 7 days later. Tumor growth was measured every 2 days. (C) Serum iron levels in tumor-bearing mice with adoptive T cell transfer. n=5 mice per condition. (D) Schematic diagram showing that CD36 induces accumulation of iron and lipid ROS through activating the p38-CEBPB-TfR1 signaling axis, causing dysfunction in CD8⁺ T cells in the early HCC tumor microenvironment.

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